

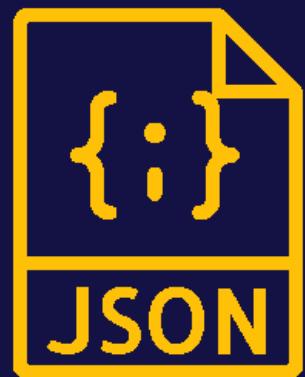
How to have a great **PWA**

PWA

یا

همون چیزی که مرز اپلیکیشن‌های **موبایل** و **وب** رو از بین می‌بره!

PWA != SPA



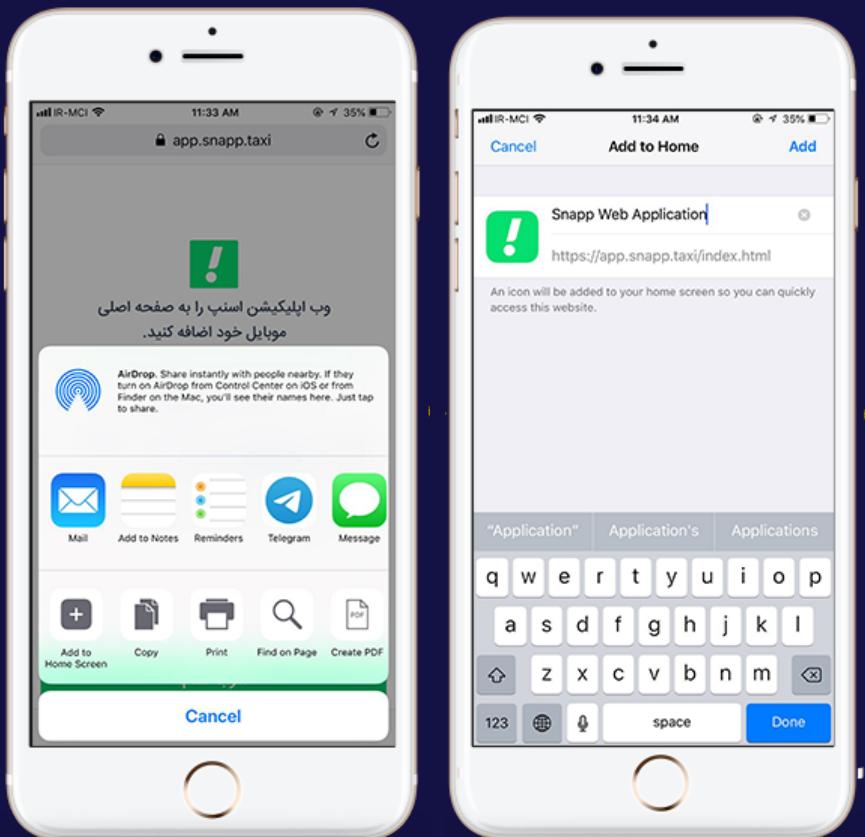
Manifest

مراحل اضافه کردن به HomeScreen

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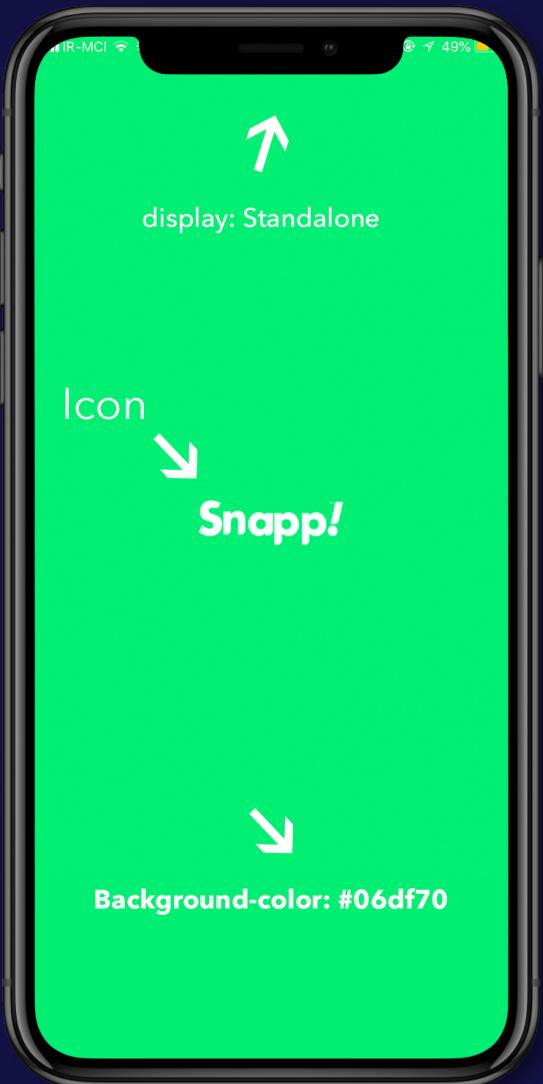


مراحل اضافه کردن به HomeScreen



مراحل اضافه کردن به HomeScreen

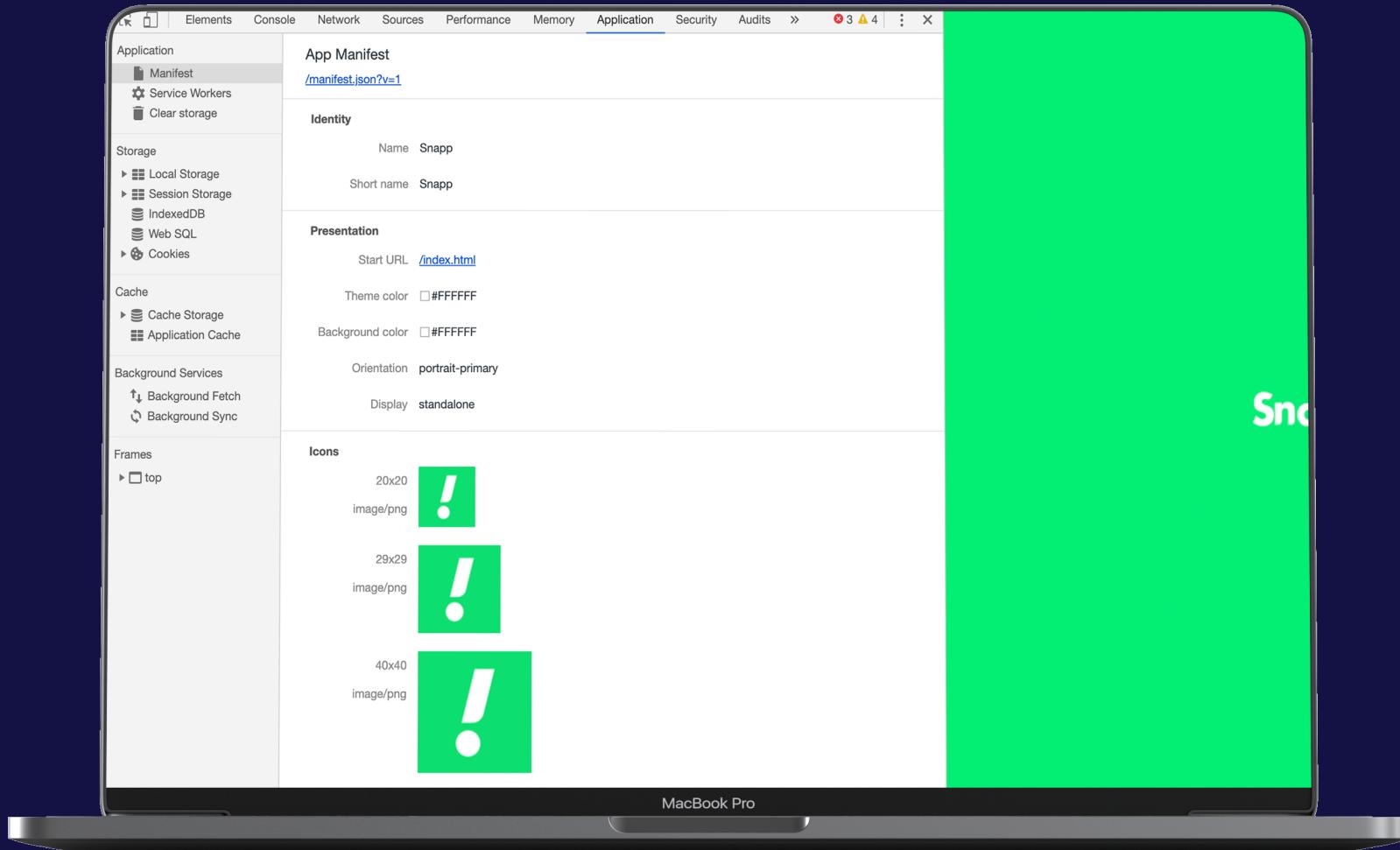


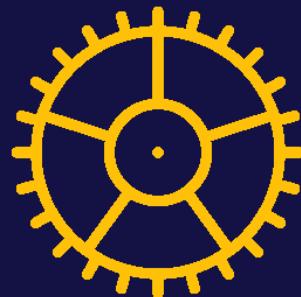


نمونه فایل Manifest

```
{  
  "short_name": "Snapp",  
  "name": "Snapp lite",  
  "start_url": "/index.html",  
  "icons": [  
    {"src": "images/icon-128x128.png",  
     "sizes": "128x128",  
     "type": "image/png"},  
    ...  
  ],  
  "display": "standalone",  
  "orientation": "portrait",  
  "background_color": "#06df70",  
  "theme_color": "#06df70"  
}
```

DevTools ↗ Manifest





Service Worker



Page



Cache



Service Worker



Network

Browser

Index.html

```
window.addEventListener('load', () => {

    if (!('serviceWorker' in navigator)) {
        /* service workers not supported 😞 */
        return
    }

navigator.serviceWorker.register('/service-worker.js').then(
    () => {
        /* registered! 👍 */
    },
    err => {
        console.error('SW registration failed! 🙄', err)
    }
)
```

service-worker.js

```
self.addEventListener('install', event => {
  event.waitUntil(
    //some code for precache files
  })
);

self.addEventListener('activate', event => {
  event.waitUntil(
    // remove old version cache
  )
});

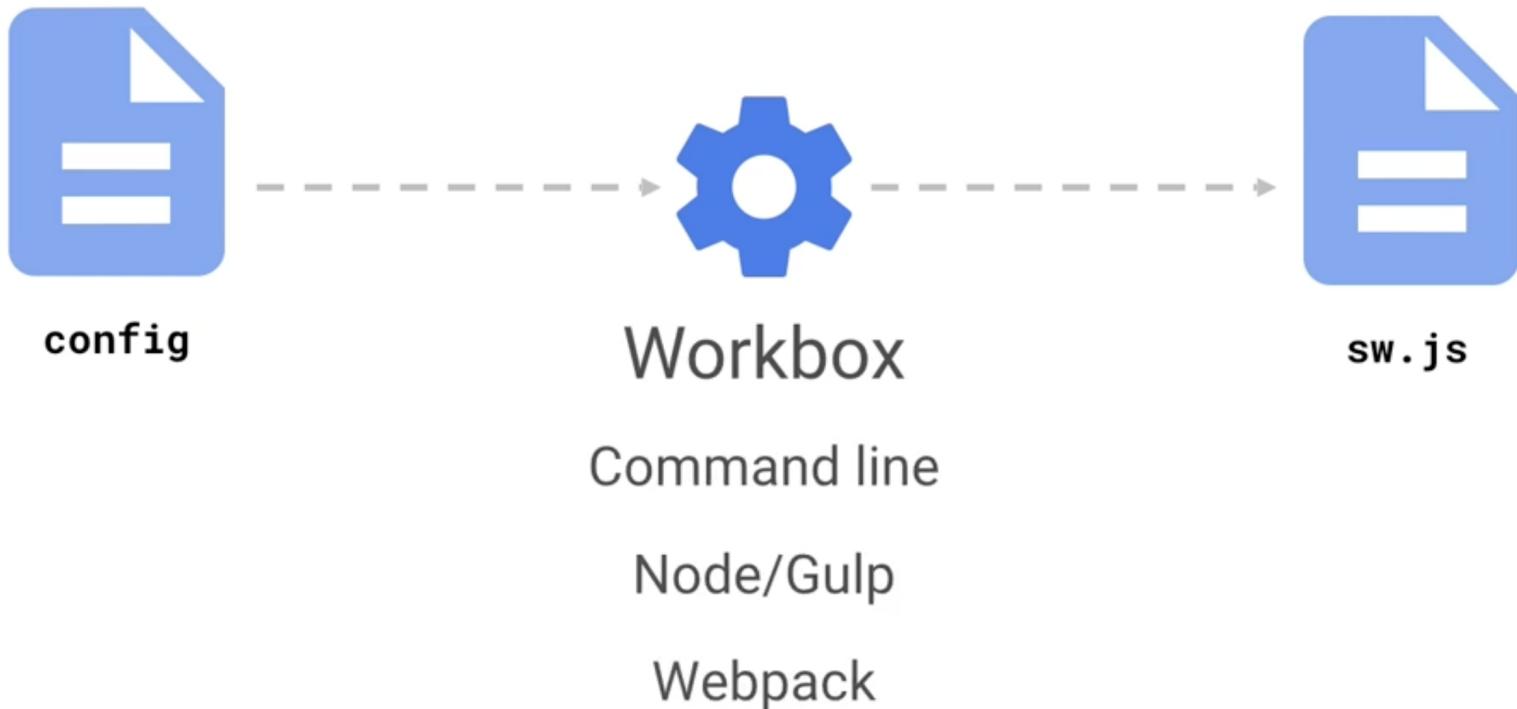
self.addEventListener('fetch', event => {
  //handle fetch Event
});
```

Offline page backup

```
self.addEventListener("fetch", function(event) {  
  
  event.respondWith(  
    caches  
      .match(event.request)  
      .then(function(cached) {  
        var networked = fetch(event.request)  
          .then(fetchedFromNetwork, unableToResolve)  
          .catch(unableToResolve);  
        return cached || networked;  
  
      function fetchedFromNetwork(response) {  
  
        var cacheCopy = response.clone();  
        caches  
          .open(version + 'pages')  
          .then(cache => {  
            cache.put(request, cacheCopy);  
            return cache.match(request);  
          })  
          .catch(error => console.error(error));  
      }  
    })  
  );  
});
```



Google Workbox



ساخت سرویس ورکر با GenerateSW

```
const path = require('path');
const htmlPlugin = require('html-webpack-plugin');
...
const workboxPlugin = require('workbox-webpack-plugin');
```

```
plugins: [
  new workboxPlugin.GenerateSW({
    swDest: 'sw.js',
    clientsClaim: true,
    skipWaiting: true,
  })
]
```

ساخت سرویس ورکر اختصاصی با InjectManifest

```
const path = require('path');
const htmlPlugin = require('html-webpack-plugin');
...
const workboxPlugin = require('workbox-webpack-plugin');
```

```
plugins: [
  new workboxPlugin.InjectManifest({
    swSrc: './src/sw.js',
    swDest: 'sw.js'
  })
]
```

SW.js

```
workbox.core.skipWaiting();
workbox.core.clientsClaim();

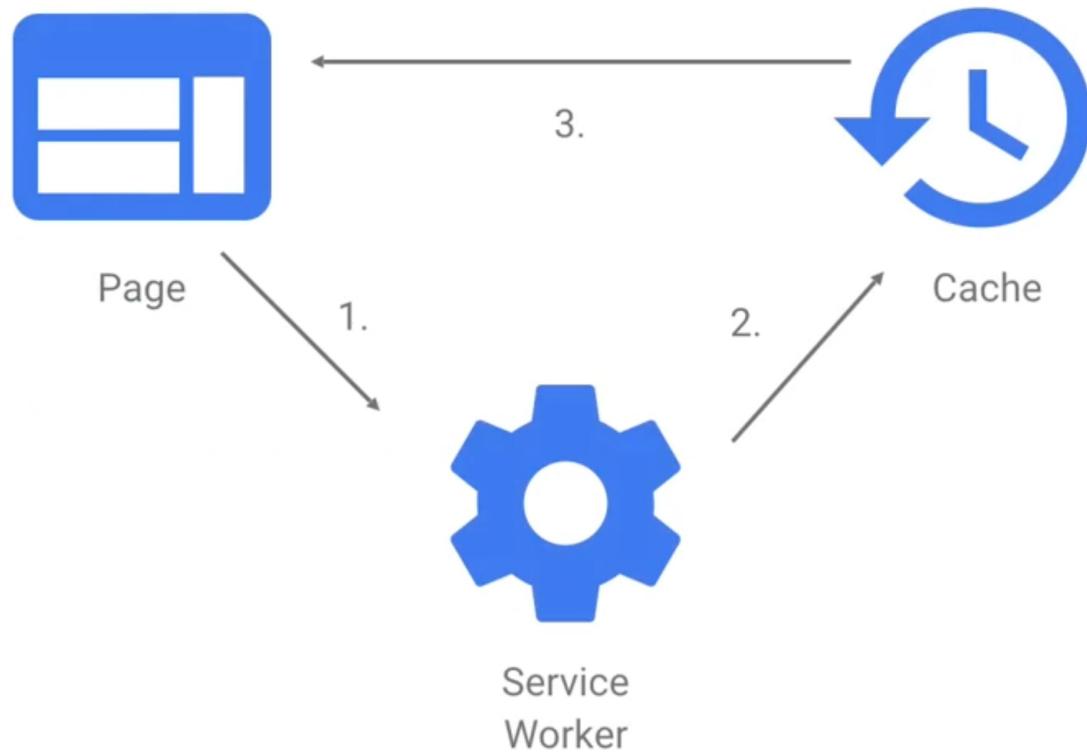
workbox.routing.registerRoute(
  new RegExp('https://app.snapp.taxi'),
  new workbox.strategies.StaleWhileRevalidate()
);

self.addEventListener('push', (event) => {
  const title = 'Get Started With Workbox';
  const options = {
    body: event.data.text()
  };
  event.waitUntil(self.registration.showNotification(title, options));
});
```

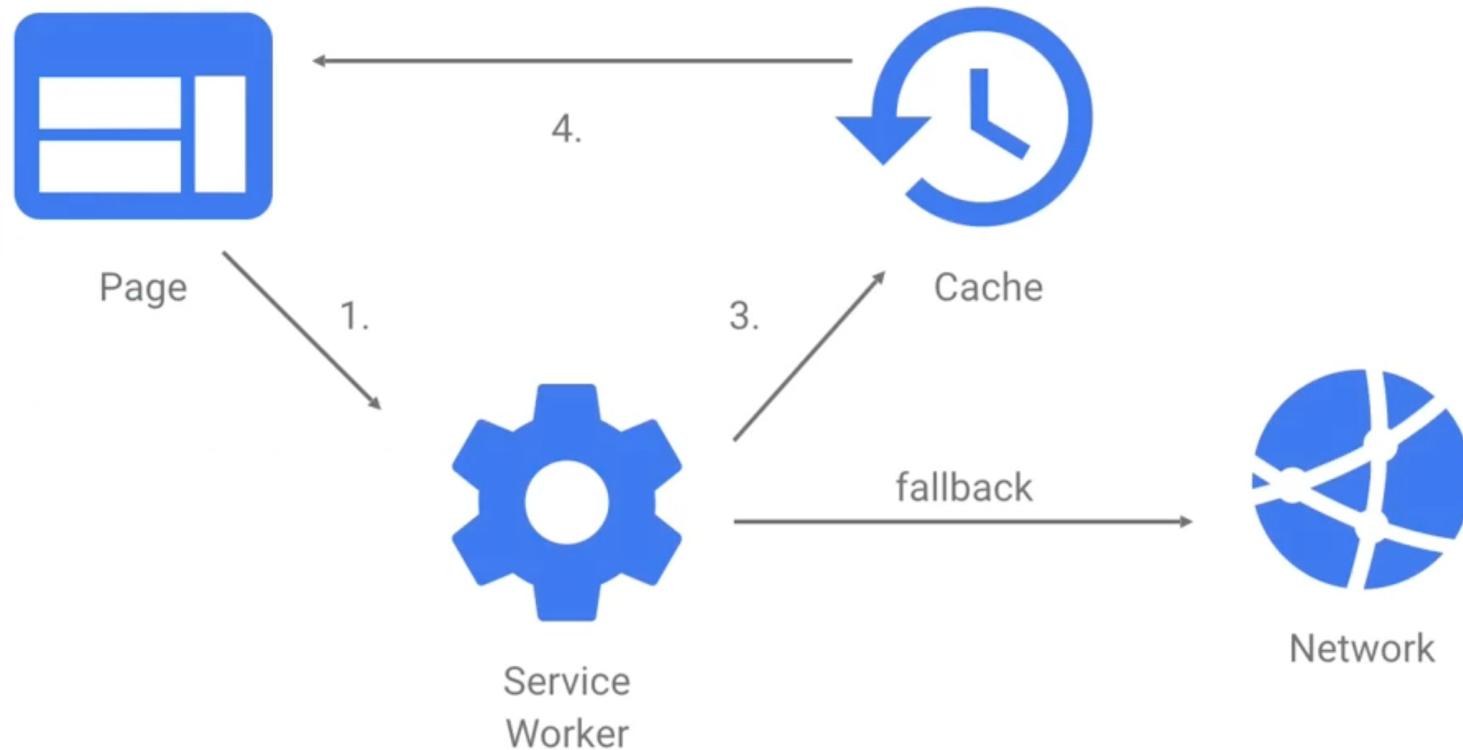


Cache Strategies

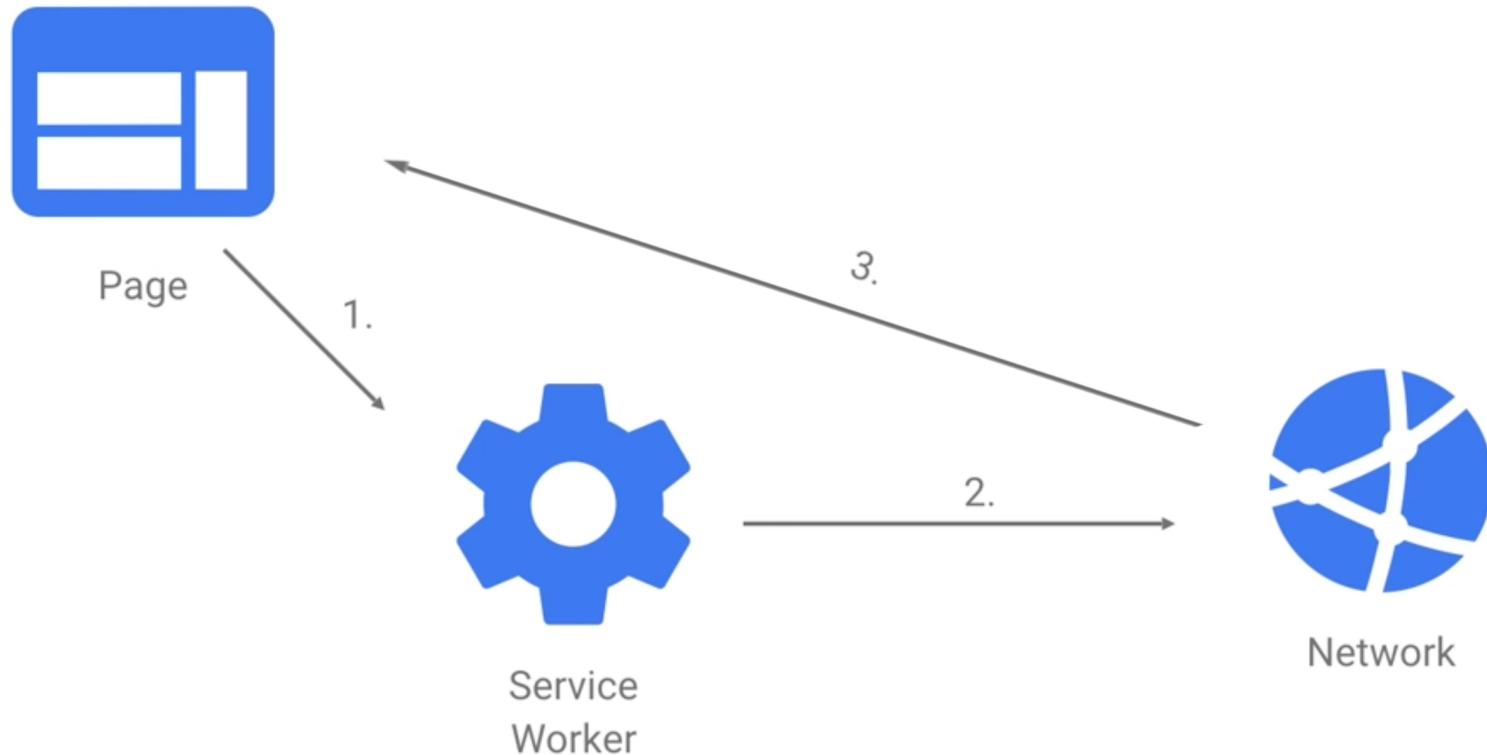
CacheOnly



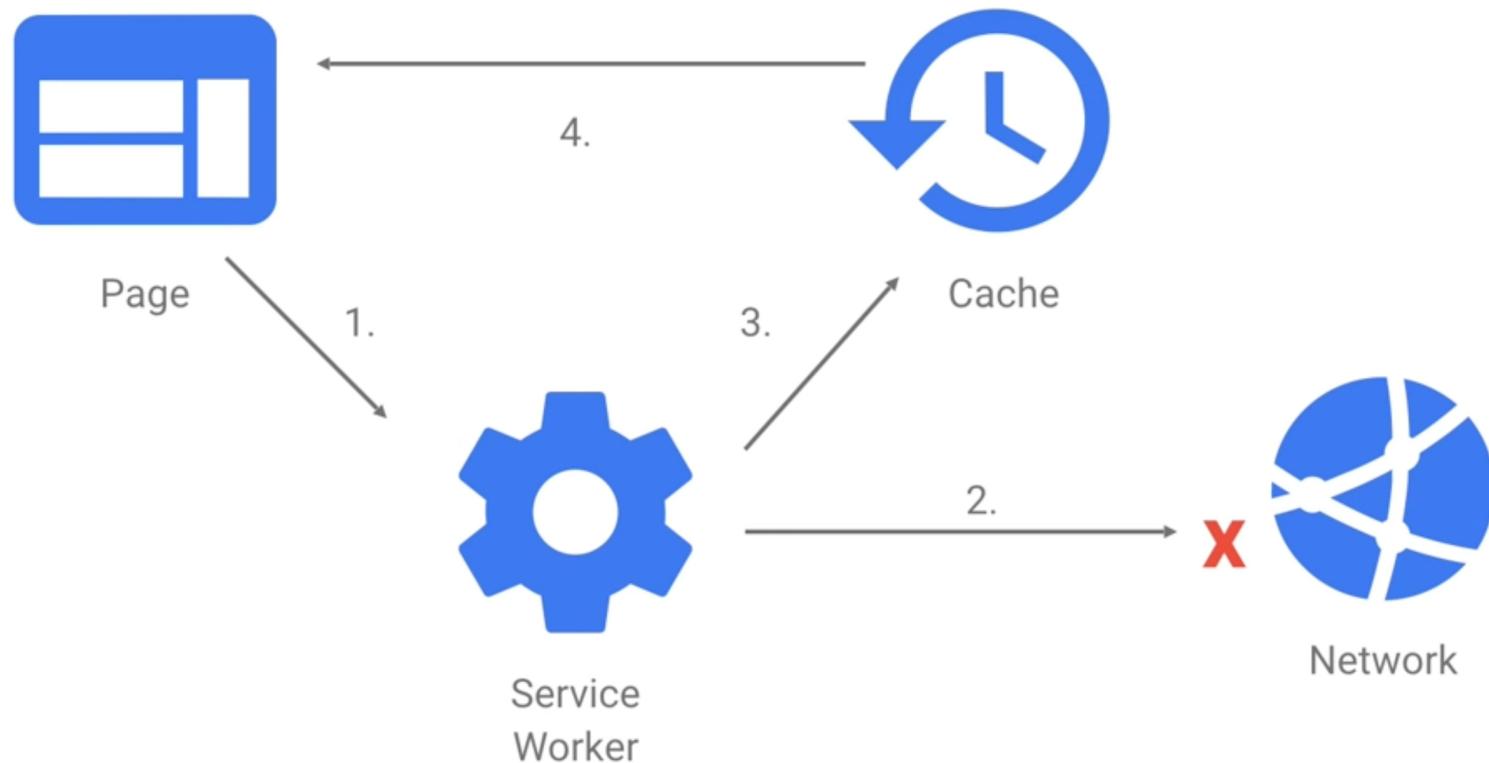
Cache First



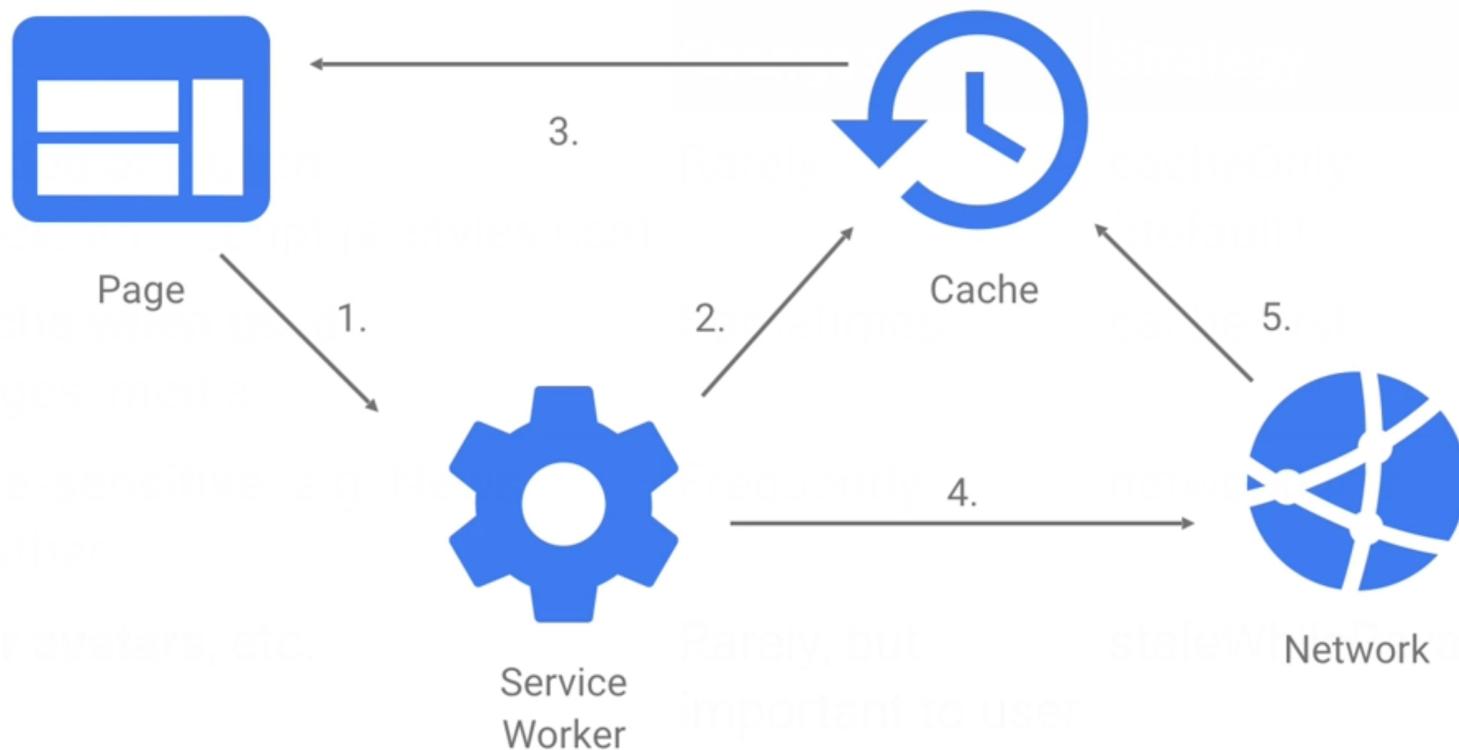
NetworkOnly



Network First



Stale While Revalidate



چه موقع از این استراتژی‌ها استفاده کنیم؟

نوع اطلاعات	تغییرات	استراتژی
داده‌هایی که حیاتی نیستند ولی نیاز به به روزرسانی دارند.	غلب	StaleWhileRevalidate
اطلاعات مورد نیاز برای اجرای برنامه (فایل‌های اصلی، اسکریپت‌ها)	بسیار کم	cacheOnly
فایل‌های کش شده	گاهی اوقات	cacheFirst
داده‌های مهم از لحاظ زمانی (مثل اخبار و ...)	غلب	NetworkFirst
داده‌های مهم از لحاظ میزان اهمیت (مثل داده‌های کاربران و ...)	غلب	NetworkOnly

- Read More About PWA

- Google Developers
- Service Worker Examples
- Service Worker CookBook
- Workbox documentation

- Icons and design Licences

- SmashIcons from flaticon
- Srip from flaticon

ارتباط با من:

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ممنون که همراه ما بودید!